

MISSION



PENCOM CSS is an AS9100D and ISO 9001:2015 certified manufacturer specializing in precision CNC milling and turning. We achieve tight tolerances up to ± 0.0003 " using advanced machinery and 3D CAD/CAM technology. With 4- and 5-axis capabilities, we efficiently produce complex components while meeting and exceeding customer requirements.

EMPLOYMENT AREAS



CNC TECHNICAL EXPERTS

Responsible for the safe operation of CNC machinery, including part loading and unloading, in-process inspection, and basic machine maintenance. Ensures accurate completion of production documentation and performs daily measurements using precision instruments such as micrometers, calipers, and height gages.

CNC PROGRAMMER

Develops and optimizes CNC programs using advanced CAD/CAM software. Responsible for multi-axis programming, machine setup, and validation of parts through First Article Inspection. Requires strong problem-solving skills and the ability to manage multiple projects efficiently.

DEBURR/ASSEMBLY

Performs finishing operations using deburring tools and equipment, ensuring components meet quality standards. Executes precise assembly processes in accordance with engineering drawings and specifications, with a focus on accuracy and product integrity as well as sandblasting.

OTHER AREAS

Supporting departments include Shipping & Receiving, Quality Control, and Production, all working together to ensure efficient operations and on-time delivery.

WHO WE ARE



PENCOM CSS Manufacturing is a highly skilled team specializing in CNC milling operations. With extensive experience working with a wide range of metal and plastic materials, we leverage advanced technology to deliver fast, high-quality results. We are capable of achieving tight tolerances for precision-critical components. Our products support companies worldwide across multiple industries, including:

- Aerospace
- Communications
- Medical
- Aviation
- Commercial

QUALITY POLICY

PENCOM CSS is committed to delivering products that meet all engineering requirements and are delivered on time, driven by innovation and service excellence.

ISO9001/AS9100 QUALITY FRAMEWORK

- Conduct regular audits of the Quality Management System
- Hold periodic management review meetings
- Identify and mitigate risks within our processes
- Continuously monitor and review quality objective

COMMITMENT TO EXCELLENCE

- 100% conformance to customer requirements
- Being up to date with cutting edge technologies
- Training our employees
- Effective communication
- Compliance with ISO9001 and AS9100 requirements

All of PENCOM CSS employees understand, commit to, and comply with our policy.



COMPANY CONTACT



+52 814 770 1507



www.pencomsf.com

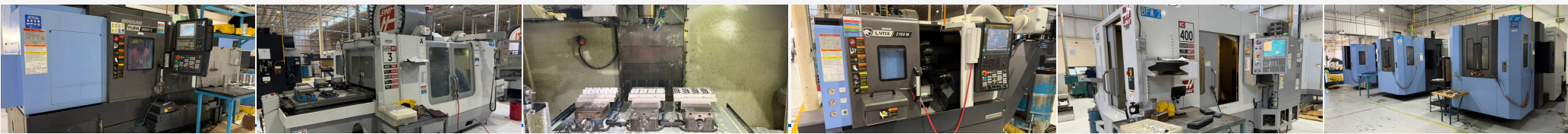


Blvd. del Raquet # 35 Col. Nuevo Nogales
Nogales, Sonora, México 84094



PLANT 1
CNC Machining

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WITH OVER 60 CNC MACHINES

LYNX-2100MA

- Including all standard Equipment
- 2 axis X, Z
- Round bar thru spindle capacity 2.047", Chuck dia. 6.5"
- 13.0" maximum turning length
- 12 station with 24 position indexing heavy duty servo-controlled turret with 0.11 second next station index
- Tool Setter
- Full contouring C-Axis
- Mill/drill with rigid tapping on main spindle and rotary tools
- High pressure Coolant system
- Main spindle speed 6000rpm

DOOSAN PUMA MX1600ST

- Including all standard Equipment
- 9 axis (X1, X2, Z1, Z2, Y, B, C1, C2, A)
- Round bar thru spindle capacity 2.047"
- Chuck dia. 6.5"
- Turning length 35.4"
- Y axis travel 6.700"
- Left and right spindle speed 6000rpm
- Milling spindle speed 12000rpm
- Live tooling in Low turret 16 BMT-45 bi-directional
- Live tooling 6000rpm
- B axis travel 240 degree
- Milling spindle coolant thru
- Automatic tool setter
- Chip Chiller standalone coolant

PUMA TT2500SY

- Including all standard Equipment
- 8 axis (X1, Z1, C1, Y, A, X2, Z2, C2)
- Round bar thru spindle capacity 3.0" and Chuck diam. 10.0" (both spindles)
- Turning length 13.8" on both spindles
- Y axis travels 4.700"
- Left and right spindle speed 3500rpm
- Upper & lower turret 24 tool each one and live tooling
- Live tooling BMT-65P bi-directional
- Live tooling 6000rpm
- Full control on C1, C2 axis
- All axis simultaneous move
- Automatic tool setter

TSUGAMI SS383H-5AX

- Including all standard Equipment
- Round bar thru spindle capacity 1.500"
- Max. machine length 11.81"
- Max. main and subspindle speed 7,000 rpm
- Tool spindle speed 20,000 rpm
- 10 axis (X1, Y1, Z1, A1, X2, Y2, Z2, B, C1, C2)
- High pressure coolant 1000PSI
- 12' Edge Patriot 338 Bar feed

DOOSAN PUMA 2600SY

- Including all standard Equipment
- Chuck dia. 10.0", 3.188" bar thru spindle
- Turning length 26.0"
- Spindle speed 4000rpm
- Subspindle speed 6000rpm
- Live tooling
- Full 4C Axis 360 (in .001)
- Automatic tool setter

DOOSAN DNM 5700S

- Including all standard Equipment
- Longitudinal 41.33" X 22.44" X 20.08" machine travel
- Table size 51.2" x 22.44"
- Station turret 40
- Spindle speed 15,000RPM
- Including fifth axis trunnion

VF-3SSYT

- Including all standard Equipment
- Longitudinal 40.0" X 26.0" X 25.0" machine travel
- Table size 54.0" x 25.0"
- Station turret 40
- Spindle speed 0-12,000RPM
- Through spindle coolant
- Including fifth axis trunnion

DOOSAN HP 4000 II

- Including all standard Equipment
- Longitudinal 23.6" X 22.0" X 23.6" machine travel
- Station turret 60
- Spindle speed 14,000RPM
- Through spindle coolant
- A axis index increment 1°

QUALITY DEPARTMENT FEATURES

- Coordinate Measuring Machine (CMM)
- Vision inspection systems
- Keyence
- Optical comparator
- Precision granite surface plate
- Micrometers and calipers (various ranges)
- Height gages and specialty measuring tools
- Thread gages (metric and inch)
- Inspection microscopes
- Comprehensive set of calibrated gage

ENGINEERING DEPARTMENT FEATURES

- Design (Solidworks, 3D models)
- CNC program (Mastercam)

OUTSIDE EXTERNAL PROCESSES CONTACT

- Plating
- Painting
- Heat Treating
- Leak test
- Extrusions
- Castings
- Forgings

Our Advantages

Professional Customer Service



Customer satisfaction is monitored through regular surveys, ensuring we meet and continuously improve upon customer expectations.

Guaranteed Product Quality



We ensure product quality through strict testing and validation processes to meet all applicable requirements.

